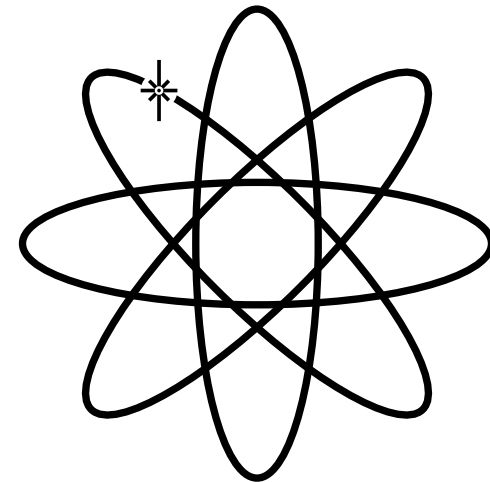


2010 PIKES PEAK REGIONAL SCIENCE FAIR

**University of Colorado
at Colorado Springs**

**Program and
Exhibit Guide**

March 13, 2010



3:30 pm Public exhibition of projects
5:00 pm Awards presentation ceremony

Pikes Peak Regional Science Fair Purpose

- To stimulate students to take a more active interest in the study of science and mathematics;
- To encourage able students, through experiment and competition, to consider scientific careers;
- To provide a means of reward and recognition;
- To arouse interest in the scientific ability of young people by affording capable students an opportunity to reveal the results of their extracurricular work.

Background

The Pikes Peak Regional Science Fair, held each Spring, provides an opportunity for senior and junior high school students to present for evaluation and judging a science or math project of their own creation.

All students in El Paso, Elbert, Park, and Teller counties are eligible to compete in the Fair. Public, private, parochial, and home schools send exhibitors to the Fair.

To conceive, design, and complete a project requires the students to use their powers of observation, imagination, originality, and tenacity. The more the student puts into a project, the more the student benefits. Many students who compete here will not pursue a career in science, but the Fair gives them a greater understanding of the world.

The Fair has been fortunate in the support it receives from the business, industry, education, military, and professional communities. These people supply the funds to operate the Fair. The judges, all volunteers, also come from these organizations.

A group of students is selected to enter the Colorado State Fair. Additionally, one or more students might win expense-paid trips to the International Science Fair.

This year, Fair participation includes 292 students, 37 teachers, and 22 schools.

The Science Fair Board of Directors thanks you for joining us this year.

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Student Entries for the 2010 Pikes Peak Regional Science Fair

Sixth Grade Biological Science

- 6A1 Paige Groninger [6] (North MS/Caitlin Holt): "Let sleeping dogs lie"
- 6A2 Taylor McQueen [6] (North MS/Caitlin Holt): "Growing tulips"
- 6A3 Isabella Schneider [6] (North MS/Caitlin Holt): "Organic vs. conventional produce: Which is safer?"
- 6A4 Brenna Cotton [6] (North MS/Caitlin Holt): "Motor oil"
- 6A5 Erin Sleppy [6] (North MS/Caitlin Holt): "Mouse maze"
- 6A6 Leo Brasuel [6] (North MS/Caitlin Holt): "Capsaicin amounts in parts of the chili"
- 6A7 Madison Zawacki [6] (North MS/Caitlin Holt): "How healthy is monument valley creek waters?"
- 6A8 Tara Hobbs [6] (Galileo MS/Michael Anderson): "Grow with the flow"
- 6A9 Graham Gale [6] (Galileo MS/Michael Anderson): "Poppin' it up!"
- 6A10 Brigitte Dietzman [6] (Falcon MS/Margaret Browne): "Germs"
- 6A11 Kayla Snyder [6] (Falcon MS/Chris Roberts): "Ice is nice"

Sixth Grade Health/Behavioral Science, I

- 6B1 Sylvie Hudson [6] (North MS/Greg Busby): "Touching memories"
- 6B2 Sophie Foster [6] (North MS/Caitlin Holt): "Color confusions"
- 6B3 Desiree Grimaldo [6] (North MS/Caitlin Holt): "Boys-vs-girls"
- 6B4 Jenna Kindt [6] (North MS/Caitlin Holt): "Identifying sodas"
- 6B5 Rene Carter [6] (North MS/Caitlin Holt): "Dandelion root and peppermint leaf vs. penicillin"
- 6B6 Fuki Hankawa [6] (North MS/Caitlin Holt): "Mr. Mozart's science lesson"
- 6B7 Cassie Nillaga [6] (North MS/Caitlin Holt): "How old is that strawberry?"
- 6B8 Quinn Jennings [6] (North MS/Caitlin Holt): "Is it clean?"
- 6B9 Janessa Ems [6] (North MS/Caitlin Holt): "Hide and go seek"
- 6B10 John Griffin [6] (North MS/Caitlin Holt): "Sound vs. scent"
- 6B11 Bailey Rojewski [6] (North MS/Caitlin Holt): "Memory"
- 6B12 Johnny Leech [6] (North MS/Caitlin Holt): "Contagious currency"
- 6B13 Leta McWilliams [6] (North MS/Caitlin Holt): "The brain's right side, left side and its volume"
- 6B14 Cameron Rojewski [6] (North MS/Caitlin Holt): "If you give a girl cake, she'll ask for a science fair"
- 6B15 Dylan Stanton [6] (North MS/Caitlin Holt): "Give me exercise!"
- 6B16 Carter Jensen [6] (North MS/Caitlin Holt): "Oxygen in a can"
- 6B17 Joshua Borst [6] (North MS/Caitlin Holt): "Mind gender gap"
- 6B18 Jorge Moreno [6] (North MS/Caitlin Holt): "Liquid or solid soap"
- 6B19 Karen T. Magana [6] (North MS/Caitlin Holt): "Mints! Mints! Mints!"
- 6B20 Jake Luiten [6] (Falcon MS/Michelle Kingore): "The smoking plant, II"

Sixth Grade Physical Science

- 6C1 Emma Howard [6] (North MS/Greg Busby): "The caffeinated radish"
- 6C2 Alissa Morones [6] (North MS/Caitlin Holt): "Which paper towel cleans the best?"
- 6C3 Brian Torres [6] (North MS/Caitlin Holt): "Video games on coordination good or bad?"
- 6C4 Quin Waterbury [6] (North MS/Caitlin Holt): "Solar energy vs. fossil fuel"
- 6C5 Zach Smentowski [6] (North MS/Caitlin Holt): "Let it rust, let it rust, let it rust."
- 6C6 Noah Smith [6] (North MS/Caitlin Holt): "Traditional or mesh: Speed and accuracy"
- 6C7 Ryan Mike [6] (North MS/Caitlin Holt): "Heat it up!"
- 6C8 Claudia Westby [6] (North MS/Caitlin Holt): "I'm going bananas"
- 6C9 Ethan Rummel [6] (Galileo MS/Michael Anderson): "What is the best design for an ion engine"
- 6C10 Ashlee Brown [6] (Galileo MS/Michael Anderson): "Which substance will make the balloon bigger"
- 6C11 Matthew Moody [6] (Falcon MS/Lisa DeHoyos): "Burning calories"
- 6C12 Cedric Camacho [6] (Edison MS/Rachel Kozhevnikova): "Hydropower"
- 6C13 Sydney Paul [6] (Edison MS/Rachel Kozhevnikova): "Magnetic permeability"
- 6C14 Madeline O'Brien [6] (Falcon MS/Lisa DeHoyos): "The Stirling engine"
- 6C15 Zachary Crossley [6] (Falcon MS/Lisa DeHoyos): "Modified nerf gun; distance and velocity"

Sixth Grade Health/Behavioral Science, II

- 6E1 Angela Edmisten [6] (North MS/Greg Busby): "Music helps"
- 6E2 Lauren Higgins [6] (North MS/Greg Busby): "Brain teaser memory"
- 6E3 Tess Abineri [6] (North MS/Caitlin Holt): "Lefties and righties put to the test"
- 6E4 Kesiah Mendoza [6] (North MS/Caitlin Holt): "Which is really the best cleaner?"
- 6E5 Taylor Stanton [6] (North MS/Caitlin Holt): "Footloose"
- 6E6 Emma Chekroun [6] (North MS/Caitlin Holt): "What types of energy drinks increase physical performance?"
- 6E7 Lakota Welling [6] (North MS/Caitlin Holt): "Music time test"
- 6E8 Fiona Miller [6] (North MS/Caitlin Holt): "Righties vs lefties"
- 6E9 Riley de Ryk [6] (North MS/Caitlin Holt): "Music and the heart"
- 6E10 Lauren Zawacki [6] (North MS/Caitlin Holt): "I'm drinking what?"
- 6E11 Amber Albrecht [6] (North MS/Caitlin Holt): "Fish tank bacterial blooms"
- 6E12 Sean Jones [6] (North MS/Caitlin Holt): "A soapy solution"
- 6E13 Kayla McCurry [6] (North MS/Caitlin Holt): "What's this liquid?"
- 6E14 Bailey Smith [6] (North MS/Caitlin Holt): "Texting"
- 6E15 Caleb Espinoza [6] (North MS/Caitlin Holt): "Goalies for lacrosse and music"
- 6E16 August Cawiezell [6] (North MS/Caitlin Holt): "How storage affects produce"
- 6E17 Marissa Cimino [6] (North MS/Caitlin Holt): "Decisions, decisions"
- 6E18 Aleesa Muir [6] (The Classical Academy/Candus Muir): "Developing an awareness of pet stewardship"

- 6E19 Logan Beauseau [6] (North MS/Caitlin Holt): "Music volumes"
 6E20 Abigail Conway [6] (North MS/Caitlin Holt): "Does listening to music help you study, which kind?"

Seventh Grade Biological Science

- 7A1 Shelby Faulkner [7] (North MS/Caitlin Holt): "The soil effect"
 7A2 Jenna Hartley [7] (North MS/Caitlin Holt): "Bacterial resistance"
 7A3 Hayley Powers [7] (North MS/Caitlin Holt): "Penicillin vs. bacteria"
 7A4 Malina Frank [7] (North MS/Caitlin Holt): "Dirty fish"
 7A5 Collin Landwehr [7] (North MS/Caitlin Holt): "H₂O quality"
 7A6 Patrick Jones [7] (North MS/Caitlin Holt): "What you can do to protect your mouth"
 7A7 Anna Grace Sullivan [7] (The Classical Academy/Candus Muir): "It's a piece of cake!"
 7A8 Deborah King [7] (The Classical Academy/Candus Muir): "For the sake of the lake"
 7A9 Chelsea Smith [7] (The Classical Academy/Candus Muir): "Ewww! What's on my shoe?"
 7A10 Mack Turner [7] (North MS/Caitlin Holt): "Are dogs mouths really cleaner than humans"
 7A11 Marcus Witzel [7] (The Classical Academy/Shawn O'Toole): "Monumental mold"
 7A12 Ashley Knapp [7] (North MS/Michael White): "Clean me for reuse!!!"
 7A13 Catherine Miller [7] (North MS/Caitlin Holt): "What are you really drinking?"
 7A14 Kyung Song [7] (Russell MS/Lois Vavra): "Good news: Chlorine destroys germs; Bad news: Is it healthy to drink?"
 7A15 Kevin Poole [7] (Evangelical Christian/Karen Leidecker): "Primer designer"
 7A16 Samantha Evenson [7] (Russell MS/Lois Vavra): "The effects of different materials on bean plants"
 7A17 Justin Young [7] (The Classical Academy/Candus Muir): "The ants are dying 2 by 2... (why?)"
 7A18 Sydney Fowler [7] (The Classical Academy/Shawn O'Toole): "How does your garden grow"
 7A19 Dominic Carrese [7] (North MS/Caitlin Holt): "South African raptors: A flight from human development?"
 7A20 Riley Mast [7] (The Classical Academy/Candus Muir): "Death in a bottle???"

Seventh Grade Health/Behavioral Science

- 7B1 Sydney Matteson [7] (North MS/Caitlin Holt): "Planaria grow speeds: Regeneration of planaria exposed to serial dilutions of vit"
 7B2 William Brown [7] (North MS/Caitlin Holt): "Does milk effect a singer's voice"
 7B3 Bobby Schenk [7] (North MS/Caitlin Holt): "Sketching emotions"
 7B4 Molly Merkert [7] (North MS/Caitlin Holt): "Couch potato rats"
 7B5 Zoe Jennings [7] (North MS/Caitlin Holt): "Onion tears!"
 7B6 Justin Skalberg [7] (North MS/Caitlin Holt): "Run to the music"
 7B7 Rennosuke Hankawa [7] (North MS/Caitlin Holt): "Brain, action, and memory"
 7B8 Kailey Urbaniak [7] (North MS/Caitlin Holt): "The effect of drink color on taste perception"
 7B9 Abby Landwehr [7] (North MS/Caitlin Holt): "Perfect ten flyaway"

- 7B10 Lorien MacEnulty [7] (North MS/Caitlin Holt): "Hand hygiene"
 7B11 Emma Reece [7] (North MS/Caitlin Holt): "Flower vs. gun: what will you remember?"
 7B12 Dominic Walker [7] (North MS/Caitlin Holt): "Don't wake me up!: The effect of sleep on performance"
 7B13 Noelle Strait [7] (The Classical Academy/Shawn O'Toole): "Color my memory"
 7B14 Katelynd Trinidad [7] (The Classical Academy/Shawn O'Toole): "What stains my teeth?"
 7B15 Megan Percy [7] (The Classical Academy/Candus Muir): "The best thing since fresh fruit"
 7B16 Jossilyn Painter [7] (North MS/Caitlin Holt): "Can you taste the difference?"
 7B17 Kaitlyn Cameron [7] (The Classical Academy/Shawn O'Toole): "Can you remember?"
 7B18 Polina Mareyassich [7] (North MS/Michael White): "What did you say?"
 7B19 Kyra Lukens [7] (North MS/Michael White): "Do you remember? The effect of blueberries on memory"
 7B20 Matthew Welter [7] (Russell MS/Lois Vavra): "Burn baby burn"
 7B21 Luke Wilmeth [7] (Home School/Holly Wilmeth): "Immune system: Warriors of the body"

Seventh Grade Physical Science

- 7C1 Christine Pracht [7] (North MS/Caitlin Holt): "Camera exposure"
 7C2 Cassidy Stegner [7] (North MS/Caitlin Holt): "Which color light on a foggy night?"
 7C3 Bowen Hardcastle [7] (North MS/Caitlin Holt): "Strings make sound"
 7C4 Joseph Simon [7] (North MS/Caitlin Holt): "Biomechanics of pitching"
 7C5 Trent Warren [7] (The Classical Academy/Candus Muir): "Laser intensity"
 7C6 Rebecca King [7] (The Classical Academy/Candus Muir): "Divide and descend"
 7C7 Nik Mace [7] (The Classical Academy/Candus Muir): "Oxidation o nail"
 7C8 Charles Baker [7] (The Classical Academy/Shawn O'Toole): "Magnetic cars"
 7C9 Maxx Helfer [7] (North MS/Caitlin Holt): "Solar panel not included"
 7C10 Caitlin Berns [7] (The Classical Academy/Shawn O'Toole): "Ooooh, you just got burned"
 7C11 Audrey Walter [7] (The Classical Academy/Candus Muir): "Got purple?"
 7C12 Nicholas Krause [7] (The Classical Academy/Candus Muir): "Ready! Aim! Lubricate?"
 7C13 Devon Klingman [7] (North MS/Michael White): "Fiery fresh fabrics"
 7C14 Emma Frantz [7] (North MS/Michael White): "The effects of magnetic levitation on friction force"
 7C15 Hugo Lara [7] (North MS/Caitlin Holt): "Vitamin capsules!"
 7C16 Andrew Jacobsen [7] (The Classical Academy/Candus Muir): "The hotter the better"
 7C17 Daniel Jacobsen [7] (The Classical Academy/Shawn O'Toole): "Go milk!"

- 7C18 Nathan Burgo [7] (The Classical Academy/Candus Muir): "In the fog"
- 7C19 Cameron Agostino [7] (Russell MS/Lois Vavra): "Does it matter? Measure the spatter"
- 7C20 Ronny Stearns [7] (The Classical Academy/Candus Muir): "Recycling radiation by retrofitting"
- 7C21 Ryan Van Wagenen [7] (The Classical Academy/Shawn O'Toole): "Choose the finer things"
- 7C22 Sara Kurko [7] (Pikes Peak Chr. S./Phil Euken): "The trickle down effect"
- 7C23 Bobby Wilson [7] (Edison MS/Rachel Kozhevnikova): "Making a biodegradable bullet-proof vest"
- 7C24 Lauren Wilson [7] (The Classical Academy/Candus Muir): "Blaze vs. baking soda"
- 7C25 Ian Craig [7] (The Classical Academy/Shawn O'Toole): "Paintball madness"
- 7C26 Hannah Fleming [7] (The Classical Academy/Candus Muir): "Frozen in time"
- 7C27 Tara Martin [7] (The Classical Academy/Shawn O'Toole): "Do you hear what I hear?"
- 7C28 Brent Frieden [7] (The Classical Academy/Candus Muir): "Sound effects"
- 7C29 Courtney Sommer [7] (The Classical Academy/Candus Muir): "Is the mass or area of toilet paper more important to your bottom line?"

Seventh Grade Eng/Math/CompSci

- 7E1 Brandon Stone [7] (North MS/Caitlin Holt): "Wind turbines"
- 7E2 Karin Smith [7] (The Classical Academy/Shawn O'Toole): "Digitally capturing the scene of the crime"
- 7E3 Aaron Overton [7] (The Classical Academy/Candus Muir): "It's a drag"
- 7E4 Kristian Carroll [7] (The Classical Academy/Shawn O'Toole): "Water or glass: That is the question"
- 7E5 Libby Churchman [7] (The Classical Academy/Candus Muir): "Noise will be noise"
- 7E6 Brooke Rojewski [7] (North MS/Caitlin Holt): "Do people actually learn from science fair?"
- 7E7 Tanner Barrett [7] (The Classical Academy/Candus Muir): "Whatever floats your boat"
- 7E8 Ryan Parrish [7] (North MS/Caitlin Holt): "Does size matter – Effects of building size for the wind removal of pollution"
- 7E9 Taylor Carroll [7] (The Classical Academy/Shawn O'Toole): "Does he need glasses or a smartball"
- 7E10 Charlie Malone [7] (The Classical Academy/Shawn O'Toole): "Wind turbine blade pitch efficiency"
- 7E11 Michael Bukowski [7] (Divine Redeemer Cath. Sch./Jeff Klassen): "Can you make water out of thin air?"

Eighth Grade Biological Science

- 8A1 Margaret Theobald [8] (North MS/Greg Busby): "Acid or base: The effect of pH on bacteria"
- 8A2 Josh Layton [8] (North MS/Greg Busby): "Cleaning green"
- 8A3 Kristin Starr [8] (North MS/Greg Busby): "Plants and food"
- 8A4 Dante Carter [8] (North MS/Greg Busby): "Do natural remedies work for stream pollution?"

- 8A5 Nick Gentz [8] (North MS/Greg Busby): "Salty algae"
- 8A6 Alina Lugo [8] (North MS/Greg Busby): "Planaria regeneration and electromagnetism"
- 8A7 Haley Matteson [8] (North MS/Greg Busby): "Sick plants, well plants – Using plants as biological indicators of pharmaceutical pollution & remediation"
- 8A8 Madison Bautista [8] (Mountain Ridge MS/Jamie Weaver): "Cleanest cleaner"

Eighth Grade Health/Behavioral Science

- 8B1 Jordan Bushnell [8] (Russell MS/Suzanne Bowes): "Canine caterwauling"
- 8B2 Sam Pierce [8] (Peyton MS/Jenni Esser): "The diabetic detective"
- 8B3 Caroline Kinne [8] (Peyton MS/Jenni Esser): "Is your friend lying?"
- 8B4 Madison Dewey [8] (North MS/Greg Busby): "Paranoid"
- 8B5 Courtney White [8] (North MS/Greg Busby): "Mouse maze"
- 8B6 Jack Hamilton [8] (North MS/Greg Busby): "Vibrating mice"
- 8B7 Taylor Moon [8] (North MS/Greg Busby): "Musical memory"
- 8B8 Sydney Vrecenar [8] (North MS/Greg Busby): "What makes 'em grow?"
- 8B9 Hannah McIntyre [8] (North MS/Greg Busby): "Natural vs. antibiotics: Which is more effective on the killing of *e. coli*?"
- 8B10 Abigail Negley [8] (North MS/Greg Busby): "Pain killers and planaria – How do they effect the healing process?"
- 8B11 Mia Davis [8] (North MS/Greg Busby): "Say cheese!"
- 8B12 Emma Spencer [8] (North MS/Greg Busby): "Dirty hands"
- 8B13 Cassandra Roten [8] (North MS/Greg Busby): "Rainbow recovery"
- 8B14 Ashley Soulvie [8] (North MS/Greg Busby): "Health supplements: Truth or spoo?"
- 8B15 Ashley Storti [8] (North MS/Greg Busby): "Tylenol rapid release gel cap race"
- 8B16 Laura Morrison Pibel [8] (North MS/Greg Busby): "It's cold!"
- 8B17 Steven Ortega [8] (North MS/Greg Busby): "Active sensory deprivation: Learning tool or psuedoscience"
- 8B18 Maggie Montoya [8] (North MS/Greg Busby): "Running on empty"
- 8B19 Alissa Fisher [8] (North MS/Greg Busby): "What is the effect of body mass on carbon dioxide output"
- 8B20 Oscar Billis [8] (North MS/Greg Busby): "Peppermint memory?"
- 8B21 Alessandra Wallisch [8] (North MS/Greg Busby): "Prize or praise"
- 8B22 Jennifer Mobley [8] (North MS/Greg Busby): "Your doorknob has what on it?"
- 8B23 Taylor Yates [8] (North MS/Greg Busby): "Mom I'm sick!"
- 8B24 Matt Southcott [8] (Russell MS/Suzanne Bowes): "The alligator and the brain"
- 8B25 Marika Schubert [8] (Russell MS/Suzanne Bowes): "Our subconscious and its effect"

Eighth Grade Math/CS/Eng/PhySci

- 8C1 Cleo Reinking [8] (North MS/Greg Busby): "The solar aureole & water vapor"
- 8C2 Sophia Schneider [8] (North MS/Greg Busby): "Reducing global warming? The effect of microorganisms on geologic sequestration"
- 8C3 Samantha Anderson [8] (North MS/Greg Busby): "Drained juice"

- 8C4 Aidan Mike [8] (North MS/Greg Busby): "What's the point?"
- 8C5 Manya Jacobson [8] (North MS/Greg Busby): "What our oceans are doing when we're not looking"
- 8C6 Allison Rose [8] (North MS/Greg Busby): "Oil spoil"
- 8C7 Aubrey Stegner [8] (North MS/Greg Busby): "Tastes so good . . . but is it that bad for us?"
- 8C8 Kiley Schlortt [8] (North MS/Greg Busby): "An ocean of acid: Breaking the chain?"
- 8C9 Isaac Morse [8] (North MS/Greg Busby): "Jump"
- 8C10 Mattie Rufenacht [8] (Peyton MS/Jenni Esser): "Mudslide"
- 8C11 Brandon Driscoll [8] (Sabin MS/Jeannie Meredith): "The golf ball test"
- 8C12 Caitlin Heier [8] (Russell MS/Suzanne Bowes): "Underground water flow"
- 8C13 Adrian Dunavin [8] (Russell MS/Suzanne Bowes): "Breaking bridges"
- 8C14 Natalie Becar [8] (Russell MS/Suzanne Bowes): "Think before you drink"
- 8C15 David Everhart [8] (Edison MS/Rachel Kozhevnikova): "Fish fry fuel"
- 8C16 Chelsey Youell [8] (North MS/Greg Busby): "LED's: A bright new future!"

Junior High Group Projects

- JF1 Lauren Dewey [6] & Ellie Sullivan [6] (North MS/Greg Busby): "Don't kiss your ..."
- JF2 Lauren Saultz [7] & Hannah Phillips [7] (North MS/Caitlin Holt): "Track star"
- JF3 Jasmine Hodosi [7] & Paloma Perea [7] (North MS/Caitlin Holt): "Groovy genius"
- JF4 Jessica Wahlen [6] & Serena Padilla [6] (North MS/Caitlin Holt): "Bad bacteria"
- JF5 Kelly Heiniger [8] & Gabby Bruno [8] (Divine Redeemer Cath. Sch./Jeff Klassen): "Now you see it ... now you don't: The effects of aging on your blind spots"
- JF6 Laney Bowden [6] & Mariah Cooke [6] (North MS/Caitlin Holt): "Which blue are you"
- JF7 Hunter King [8] & Collin King [8] (Evangelical Christian/Karen Leidecker): "Shaking things up"
- JF8 Levi Schofield [8] & Luke Dekker [8] (Evangelical Christian/Karen Leidecker): "DWD"

Senior High Biological Science

- SA1 Sylvia Donahoo [10] (Coronado HS/Darin Smith): "There is always a bigger fish"
- SA2 Justin Mayo [9] (Palmer HS/Carolyn Derr): "Got mutated bacteria?"
- SA3 Liam Jasperse-Sjolander [10] (Palmer HS/Nancy Hampson): "A study of bacteriostatic agents: Part 2"
- SA4 Emily Elkins [10] (Palmer HS/Nancy Hampson): "Come fly with me: The tracking ability of homing pigeons"
- SA5 Molly Turner [9] (Palmer HS/Carolyn Derr): "Acid rain repair"
- SA6 Jon Comiskey [9] (Palmer HS/Karen Crosson): "Popcorn mania"
- SA7 Jacob Foreman [9] (Palmer HS/Karen Crosson): "Lichen it or not?"
- SA8 Brittany Smith [10] (Discovery Canyon HS/Michael Amundson): "Comparison of external and internal regeneration in earthworms"

- SA9 Caleb Kruse [12] (Home School/Tami Kruse): "Is ultraviolet radiation induced *zooxanthellae* expulsion in coral is due to oxidative stress"
- SA10 Harley Glenn [11] (Falcon HS/Jennifer Gray): "Hydroponic growth"
- SA11 Derek Linan [12] (Wasson HS/Angela Dunn): "Bacteria killing waves"

Senior High Health/Behavioral Science

- SB1 Tanner Howard [9] (Palmer HS/Martha Alvarez): "Inter-fear-ance: Interruption and its effect on short-term memory"
- SB2 Ellie Hinkle [10] (Palmer HS/Nancy Hampson): "Shut up and drive"
- SB3 Rileigh Darby-McClure [10] (Coronado HS/Darin Smith): "Intelligence in our genes"
- SB4 Joshua Dostal [9] (Palmer HS/Carolyn Derr): "The science of taste"
- SB5 Abbi Helfer [10] (Palmer HS/Nancy Hampson): "The use of starches in clotting blood"
- SB6 Emily Ryan [9] (Palmer HS/Karen Crosson): "Equine respiratory health"
- SB7 Heather Woolley [9] (Palmer HS/Carolyn Derr): "Nature is calling"
- SB8 Maria Wallisch [10] (Palmer HS/Nancy Hampson): "Testing for bias in a photo lineup"
- SB9 Ryan Kiehl [9] (Palmer HS/Karen Crosson): "Blood glucose"
- SB10 Lisa Tuggle [9] (Palmer HS/Karen Crosson): "Lung capacity"
- SB11 Tiana Cerciello [9] (Coronado HS/Lynne Williams): "There is nothing to fear"
- SB12 John Kwon [12] (Pine Creek HS/Alisha Donald): "Personality impact on memory"
- SB13 Rahul Shankar [10] (Rampart HS/Regina Miller): "Proteomic method development for the analysis of tissue transglutaminase's role in cancer progression"
- SB14 Brandi Irsik [10] (Edison HS/Rachel Kozhevnikova): "Nothing but net"

Senior High Physical Science

- SC1 Taylor Bautista [10] (Rampart HS/Niki Juhl): "Bacteria in a sponge"
- SC2 Kaitlin Wilmeth [11] (Home School/Holly Wilmeth): "Washed out"
- SC3 Jordan Townsend [10] (Coronado HS/Darin Smith): "Pennies: The next stimulus package?"
- SC4 Ethan Hahn [12] (The Classical Academy/Linda Cummings): "Nuclear fusion by inertial electrostatic confinement: Increasing efficiency with thermionic emission"
- SC5 Eric Olin [9] (Palmer HS/Carolyn Derr): "Sustained voltage across battery brands and materials"
- SC6 Jasmine Stewart [9] (Palmer HS/Karen Crosson): "More than light"
- SC7 Sara Volz [9] (Cheyenne Mountain HS/David Volz): "Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*"

Senior High Eng/Math/Computer Science

- SD1 Ravi Gaddipati [10] (Discovery Canyon HS/Michael Amundson): "Optimizing low energy railgun systems"
- SD2 Courtney Lutton [9] (Palmer HS/Karen Crosson): "Development and evaluation of hydrogen and oxygen rockets"
- SD3 Ricky Cranford [10] (Coronado HS/Darin Smith): "Perpetual motion"
- SD4 David Wise [11] (The Classical Academy/Linda Cummings): "Mathematical analysis of chemical equilibria"

- SD5 Phani Gaddipati [10] (Discovery Canyon HS/Michael Amundson): "Wireless power"
- SD6 John Parish [11] (Home School/Maureen Parish): "Closer to where it wasn't: Estimation and tracking using adaptive filtering"
- SD7 Jonathan Mobley [10] (Palmer HS/Nancy Hampson): "Making waves – Constructing a basic synthesizer"
- SD8 Thomas Prendergast [9] (Palmer HS/Carolyn Derr): "The recording machine"
- SD9 Christopher Krause [12] (The Classical Academy/Annette Calabretta): "Caution: Urbanization may be hot! 2"
- SD10 Joshua R. Leonard [9] (Falcon HS/Jennifer Gray): "Distance a model rocket flies at different angles"

Senior High Group Projects

- SF1 Tonya Pavlenko [11] & Laura Gudvangen [11] (Palmer HS/Greg Busby): "Internal combat with melanoma: Increasing immunogenicity using toll ligand combination therapy"
- SF2 Lorne Muir II [10] & Nathan Weeks [10] (The Classical Academy/Candus Muir): "The separate toxicity of various engineered nanoparticles by flow cytometry"
- SF3 Dylan Mata-Lovato [10] & Andres Watson [10] (Palmer HS/Nancy Hampson): "Got germs?"
- SF4 Diana Curti [10] & Katya Saenz [10] (Palmer HS/Nancy Hampson): "Magnesium levels in Colorado water"
- SF5 Taylor Moran [10] & Molly Anstett [10] (Palmer HS/Nancy Hampson): "Flour power"
- SF6 Drew MacMillan [10] & Ben Rather [10] & Jason Schmidt [10] (Coronado HS/Darin Smith): "Got pop?"
- SF7 Kate Henjum [9] & Maren Plutt [9] (Palmer HS/Carolyn Derr): "You best not be a 'P' if your in IB!"
- SF8 Tiffani Sandoval [10] & Ryan McCarville [10] (Palmer HS/Nancy Hampson): "Monster beating heart"
- SF9 Katie Morrison Pibel [9] & Chrissy Gardner [9] (Palmer HS/Carolyn Derr): "Vampire leukemia"
- SF10 Jessica Hibbert [9] & Ashley Marten [9] (Palmer HS/Martha Alvarez): "To eat or not to eat"
- SF11 Geordan R. Waldman [10] & Mark Snell [10] (Palmer HS/Nancy Hampson): "L.A.S.E.R. (Light amplification by stimulated emission of radiation)"
- SF12 Allison Eling [9] & Rose Bunting [9] (Coronado HS/Lynne Williams): "Temperature effects on chocolate dipped fruit and foods"
- SF13 Schuyler Vandersluis [9] & Andrew Johnson [9] (Coronado HS/Lynne Williams): "Bridge design"
- SF14 Peter Racioppo [12] & Daewong Kim [12] & Sarahann Castle [10] (Fountain-Fort Carson HS/Colleen Barry): "The effects of nutrient deprivation on hydroponically grown plants"
- SF15 Jason Dandino [12] & Elise Yenne [12] & Ryan Sade [12] (Wasson HS/Angela Dunn): "Acne bacteria treatment"
- SF16 Rene Gonzalez [9] & JiaWei Ling [9] (Palmer HS/Carolyn Derr): "Silver for cancerous cells"
- SF17 India Walden [9] & Hailey RoseKrans [9] (Coronado HS/Lynne Williams): "Effect of certain images on the human brain"
- SF18 Vincent Villarreal [9] & Tessa Stanley [9] (Palmer HS/Martha Alvarez): "Compact fluorescent light bulbs"
- SF19 Haylee Ehrlich [10] & Julia Briggs [10] (Coronado HS/Darin Smith): "Thermal pollution: The truth of hot water"

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Junior High (6th 7th, 8th grades)

Biology

Health and Behavioral Science

Physical Sciences/Math/Eng/Computer Science

Group Projects

Senior High (9th, 10th, 11th, 12th grades)

Biology

Health and Behavioral Science

Physical Science

Engineering/Math/Computer Science

Group Projects

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Invitations to 55th Annual Colorado State Science Fair

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Pikes Peak Regional Science Fair

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